IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PAUL F. RANKEN ET AL.	
APPLN NO.: 10/678,019	**GROUP ART UNIT: 1771**
FILED: OCTOBER 1, 2003	**EXAMINER: JENNA L. DAVIS**
FLAME RETARDANT EPOXY PRE-PREGS, LAMINATES, AND PRINTED WIRING BOARDS OF ENHANCED THERMAL STABILITY	

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Sir:

DECLARATION UNDER 37 C.F.R. § 1.132 BY RENÉ G. E. HERBIET

I, René G. E. Herbiet, declare as follows:

1. I am named as a co-inventor in the above-referenced United States Patent Application.

2. I am employed as a Manager R&D with Albemarle Corporation, the 100 percent owner of the rights in the invention described in the above-referenced application.

3. The attached Exhibit A is a true and complete copy of a page from a newsletter distributed by Martinswerk GmbH, a subsidiary of Albemarle Corporation. Exhibit A contains an image, referenced as Fig. 1, which is a reflection electron microscope (REM) shot of the boehmite taught in the above-referenced application as a preferred boehmite material (MARTOXAL BN-2) for use in accordance with the invention. This image makes clear that the MARTOXAL BN-2 product has a non-fibrous morphology.

4. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. § 1001 and that

such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Date: October 18th, 2007 Signed:
René G. E. Herbiet

MARTINSWERK

Technical Newsletter

MARTOXAL B..

NEW

MARTINSWERK

MARTOXAL B..

The new boehmite-product group

The many years of experience of MARTINSWERK in the areas of aluminium oxide (MARTOXID) and aluminium hydroxide (MARTINAL) have flowed into the new MARTOXAL B.. product group. MARTOXAL is based on the mineral phase boehmite, which is described chemically as aluminium oxide hydroxide or γ-AlOOH.

Boehmite is an important basic material in the production of catalysts and catalyst supports. It is also used in conjunction with special fire resistant and ceramic applications. Boehmite is gaining increasing importance as a raw material for certain polishing agents and abrasives.

Included in its most important qualities are dispersability, crystallinity, porosity, activity as well as the transformation reaction with γ- and α-Al_2O_3.

MARTOXAL BN (unground) and BN-2 (finest ground) are granulates which are especially distinguished by their high crystallinity as well as good thermal transformation to γ- and α-Al_2O_3.

MARTINSWERK also has available the possibility of producing tailor made boehmite of higher dispersability and a higher specific surface.

Applications

Carrier material and component for the production of catalysts, refractories and ceramics.

<table>
<tr><th>MARTOXAL</th><th></th><th>BN-2</th><th>BN</th></tr>
<tr><td>Typical Analysis</td><td>[%]:</td><td></td><td></td></tr>
<tr><td>Na_2O total</td><td></td><td colspan="2">≤ 0.10</td></tr>
<tr><td>CaO</td><td></td><td colspan="2">≤ 0.03</td></tr>
<tr><td>Fe_2O_3</td><td></td><td colspan="2">≤ 0.03</td></tr>
<tr><td>SiO_2</td><td></td><td colspan="2">≤ 0.06</td></tr>
<tr><td>Loss on Ignition</td><td>[%]:</td><td colspan="2">17.0 ± 2</td></tr>
<tr><td>Specific Surface (BET)</td><td>[m²/g]:</td><td>15 ± 5</td><td>2.0 ± 0.5</td></tr>
<tr><td>Bulk Density</td><td>[kg/m³]:</td><td colspan="2">700 ± 100</td></tr>
<tr><td>Dispersibility Index</td><td>[%]:</td><td>5</td><td>1</td></tr>
<tr><td>Phase</td><td></td><td colspan="2">γ- AlOOH</td></tr>
<tr><td>Grain Size Distribution</td><td>d_{50} [μm]:</td><td>1.0 ± 0.2</td><td>50 ± 10</td></tr>
<tr><td></td><td>100 % [μm]:</td><td>10 ± 2</td><td>100 ± 20</td></tr>
</table>

The above mentioned values should be taken only as indications and not as guaranteed properties.

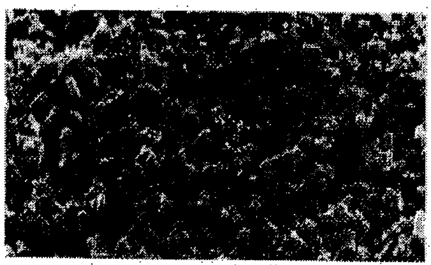


Fig. 1: REM shot of MARTOXAL BN-2

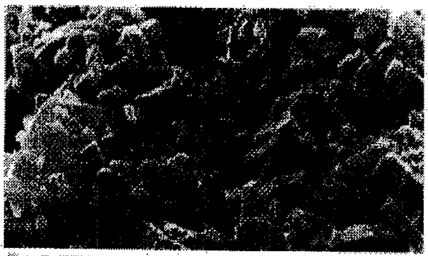
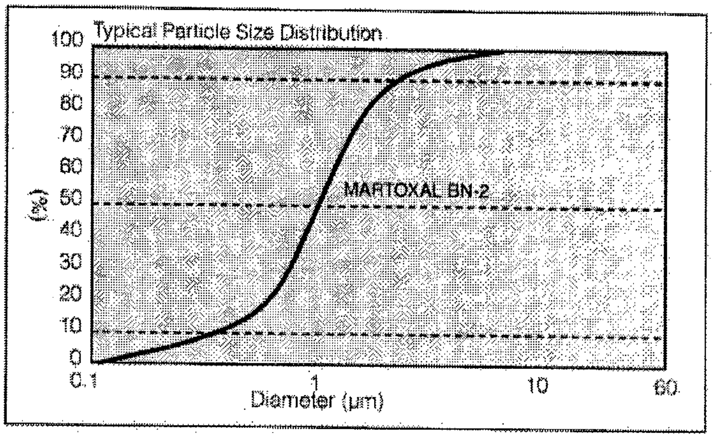


Fig. 2: REM shot of MARTOXAL BN



Further information and data sheets on the new product line are available on request